

STYRON™ C-TECH HIPS

High Impact Polystyrene Resin

Trinseo

Message:

STYRON™ C-TECH is a high clarity, high gloss polystyrene with excellent mechanical properties on thermoformed parts.

Main Characteristics:

High clarity

Excellent gloss

High heat

High flow

Easy processing

Excellent mechanical properties of thermoformed parts

Applications:

Transparent Packaging Applications: Form Fill Seal (FFS), pre-forms (DFS), Disposables and Bi-Oriented Polystyrene (BOPS).

Gloss cap-layer for extrusion

Complies with:

Europe REGULATION (EC) 10/2011

Meets Essential Req. of 94/62/EC(Packaging)

U.S. FDA 21 CFR 177.1640

Consult the regulations for complete details.

General Information			
Features	Good Processability		
	High Clarity		
	High Flow		
	High Gloss		
	High Heat Resistance		
Uses	Packaging		
Agency Ratings	EU 94/62/EC		
	EU No 10/2011		
	FDA 21 CFR 177.1640		
Forms	Pellets		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	6.3	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
3.20 mm ¹	2700	MPa	ASTM D638
3.20 mm	2700	MPa	ISO 527-2/5
Tensile Strength			
Yield, 3.20 mm ²	33.0	MPa	ASTM D638
Yield, 3.20 mm	33.0	MPa	ISO 527-2/5

Break, 3.20 mm ³	27.0	MPa	ASTM D638
Break, 3.20 mm	27.0	MPa	ISO 527-2/5
Tensile Elongation			
Break, 3.20 mm ⁴	> 20	%	ASTM D638
Break, 3.20 mm	> 20	%	ISO 527-2/5
Flexural Modulus			
3.20 mm ⁵	2600	MPa	ASTM D790
3.20 mm	2600	MPa	ISO 178
Flexural Strength			
3.20 mm ⁶	62.0	MPa	ASTM D790
3.20 mm	62.0	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	72.0	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature	100	°C	ISO 306/A120, ASTM D1525 ⁷
Flammability	Nominal Value		Test Method
Flame Rating ⁸ (1.50 mm)	HB		UL 94
Optical	Nominal Value		Test Method
Gardner Gloss (60°, Thermoformed)	60		ASTM D523
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	5.0 mm/min		
5.	Method I (3 point load), 1.3 mm/min		
6.	Method I (3 point load), 1.3 mm/min		
7.	Rate B (120°C/h), Loading 1 (10 N)		
8.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		

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